TO0290 629C660

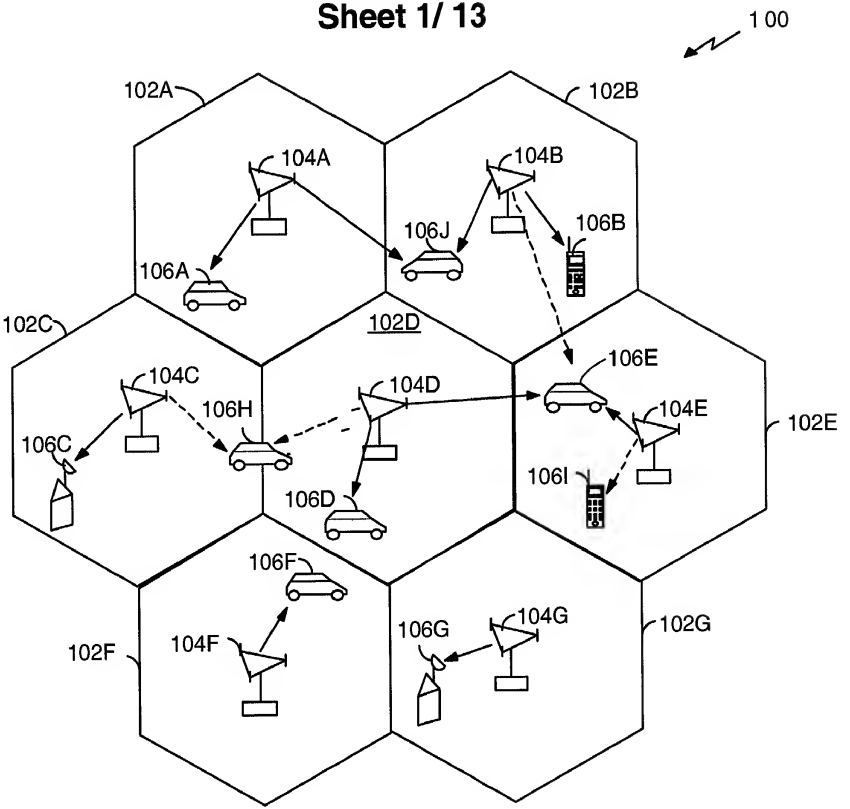

FIG. 1

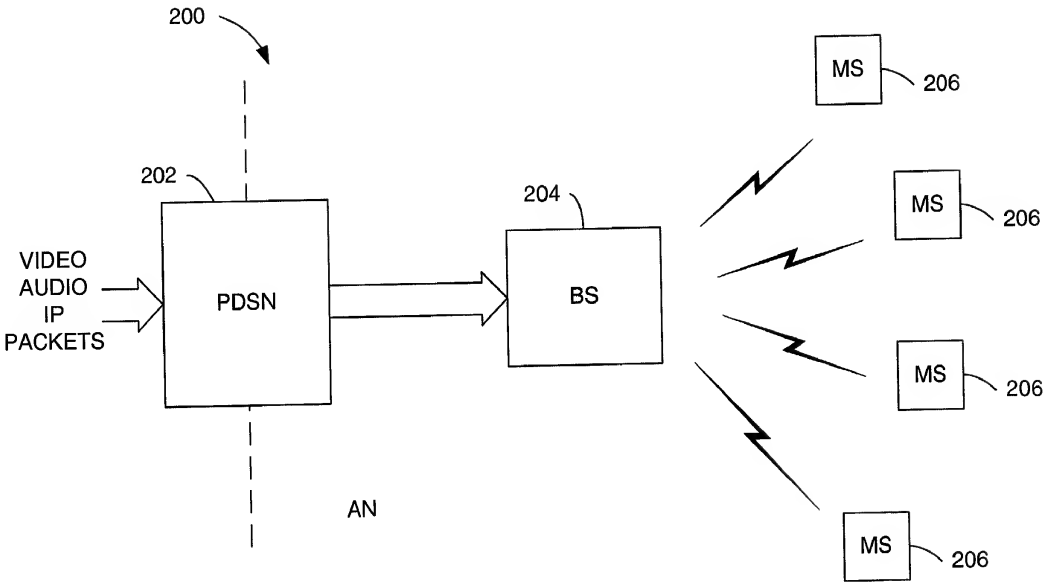
200
202
204
VIDEO
AUDIO
IP
PACKETS
PDSN
BS
AN
MS
206
MS
206
MS
206
MS
206

FIG. 2

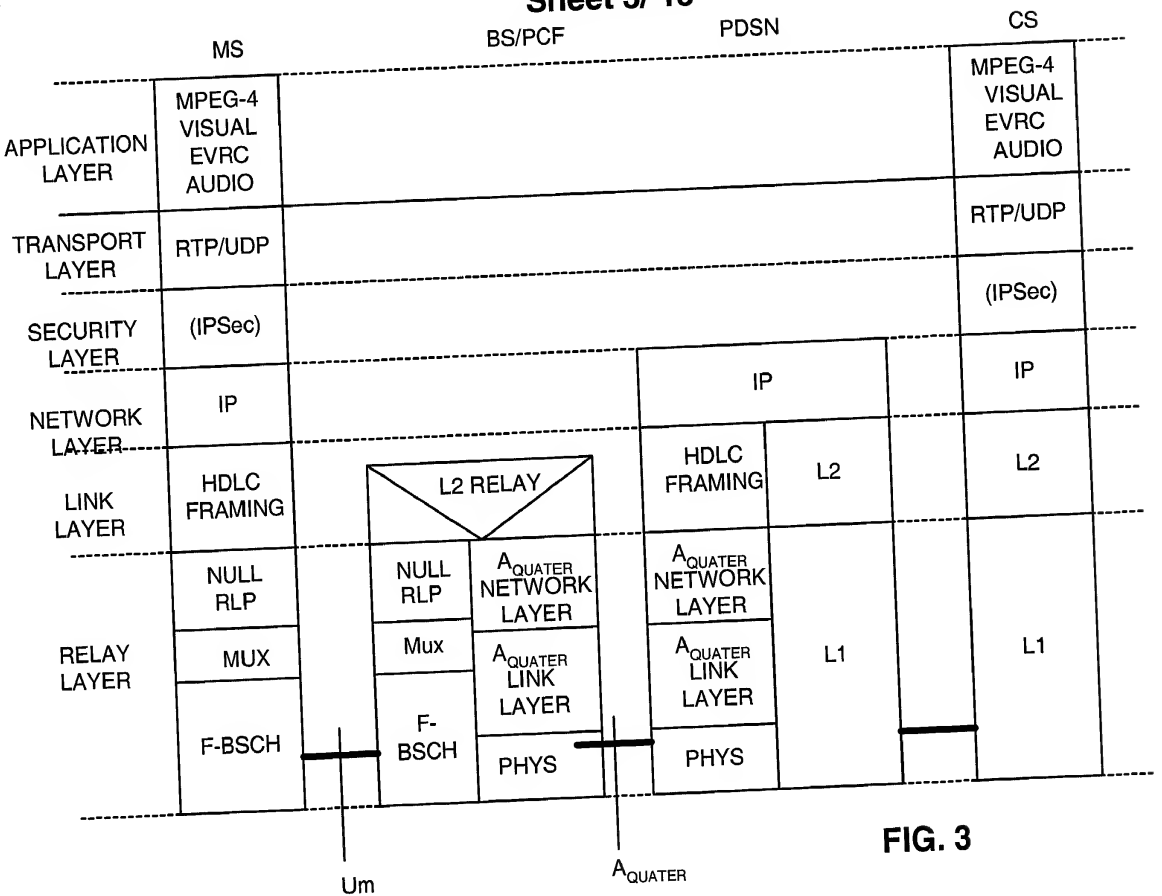
MS
BS/PCF
PDSN
CS
APPLICATION LAYER
TRANSPORT LAYER
SECURITY LAYER
NETWORK LAYER
LINK LAYER
RELAY LAYER
MPEG-4 VISUAL EVRC AUDIO
RTP/UDP
(IPSec)
IP
HDLC FRAMING
NULL RLP
MUX
F-BSCH
L2 RELAY
NULL RLP
Mux
F-BSCH
A QUATER NETWORK LAYER
A QUATER LINK LAYER
PHYS
IP
HDLC FRAMING
L2
A QUATER NETWORK LAYER
A QUATER LINK LAYER
PHYS
L1
MPEG-4 VISUAL EVRC AUDIO
RTP/UDP
(IPSec)
IP
L2
L1
Um
A QUATER

FIG. 3

LAYER	PROTOCOLS AND SELECTED OPTIONS FOR SERVICE OPTION XX
APPLICATION	MPEG-4 VISUAL, EVRC AUDIO, RTP PAYLOAD TYPES
TRANSPORT	RTP/UDP PORT NUMBER
SECURITY	UNSPECIFIED
NETWORK	IP
HEADER COMPRESSION	ROHC
LINK	HDLC-TYPE FRAMING
RLP	NULL
MULTIPLEX	BSPM
PHYSICAL	BSPM

FIG. 4

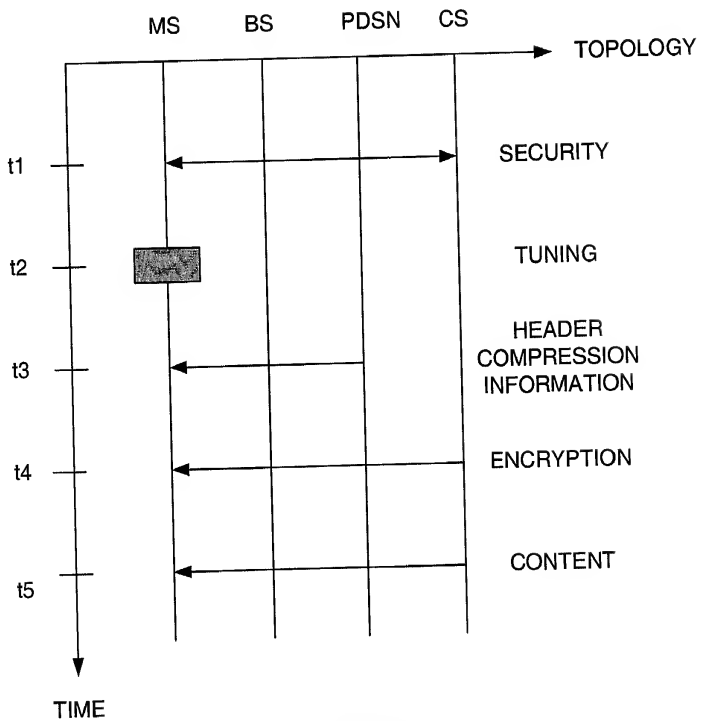
MS
BS
PDSN
CS
TOPOLOGY
t1
SECURITY
t2
TUNING
t3
HEADER
COMPRESSION
INFORMATION
t4
ENCRYPTION
t5
CONTENT
TIME

FIG. 5

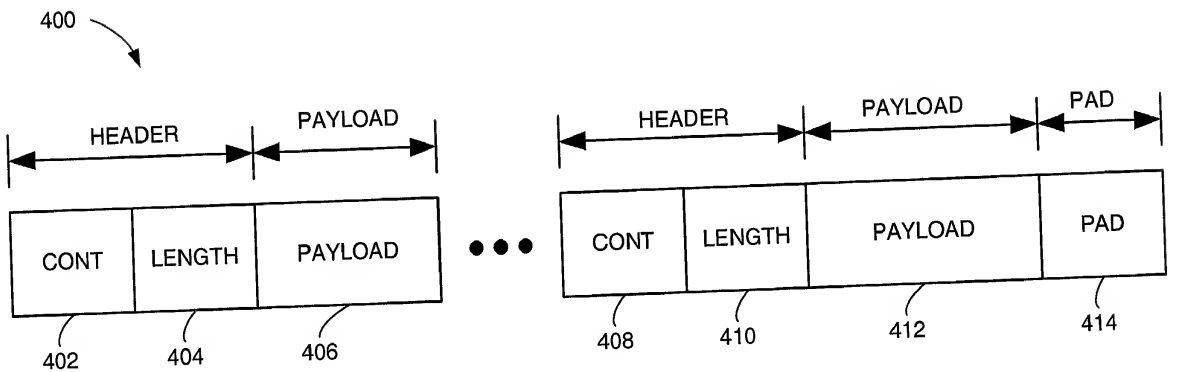
400
HEADER
PAYLOAD
CONT
LENGTH
PAYLOAD
402
404
406
HEADER
PAYLOAD
PAD
CONT
LENGTH
PAYLOAD
PAD
408
410
412
414

FIG. 6

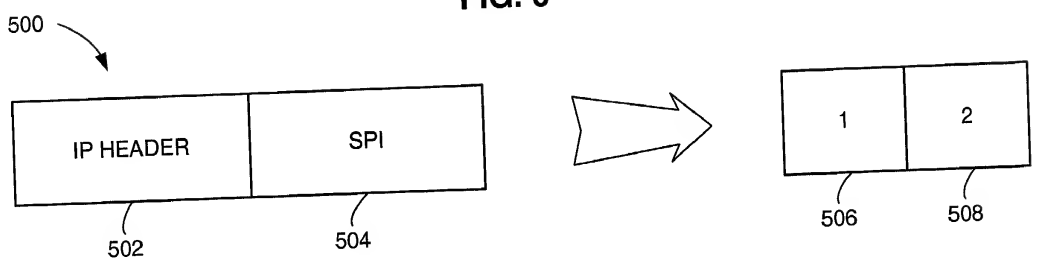
500
IP HEADER
SPI
502
504
1
2
506
508

FIG. 7

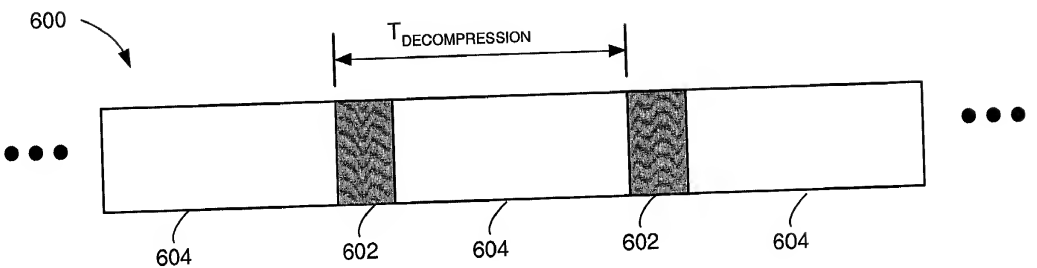

FIG.8

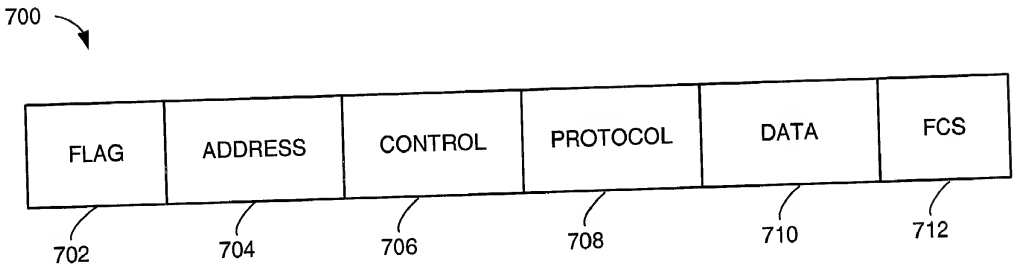
700
FLAG
ADDRESS
CONTROL
PROTOCOL
DATA
FCS
702
704
706
708
710
712

FIG. 9

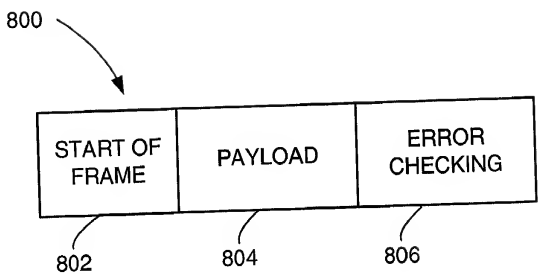
800
START OF FRAME
PAYLOAD
ERROR CHECKING
802
804
806

FIG. 10

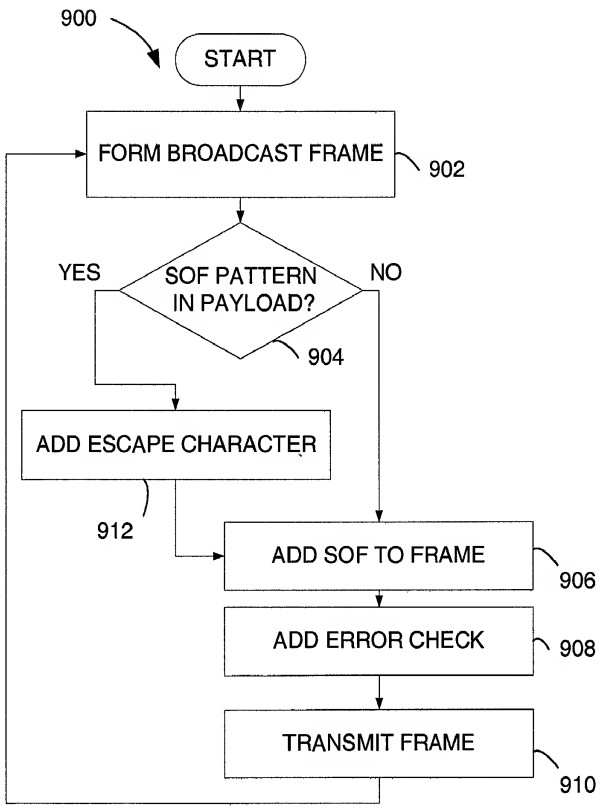
900
START
FORM BROADCAST FRAME
902
YES
SOF PATTERN IN PAYLOAD?
NO
904
ADD ESCAPE CHARACTER
912
ADD SOF TO FRAME
906
ADD ERROR CHECK
908
TRANSMIT FRAME
910

FIG. 11

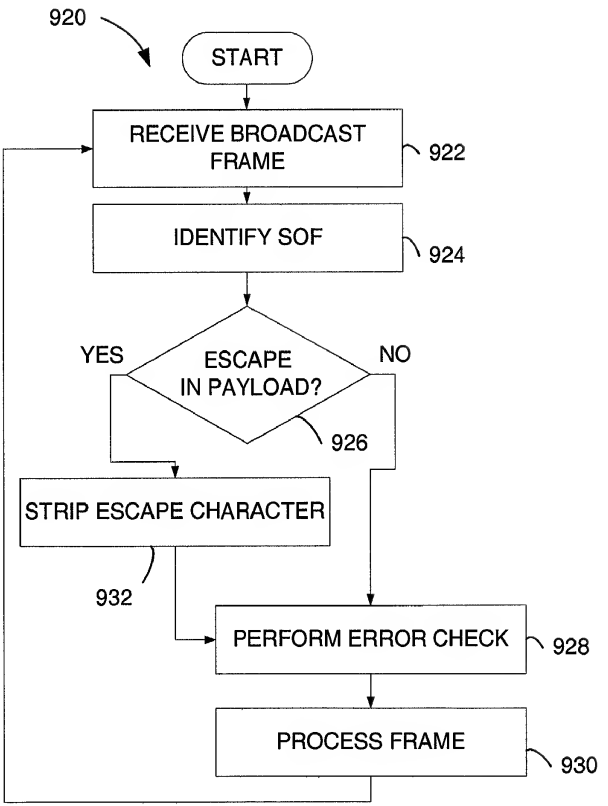
920
START
RECEIVE BROADCAST FRAME
922
IDENTIFY SOF
924
YES
ESCAPE IN PAYLOAD?
NO
926
STRIP ESCAPE CHARACTER
932
PERFORM ERROR CHECK
928
PROCESS FRAME
930

FIG. 12

PCT/US2001/022222

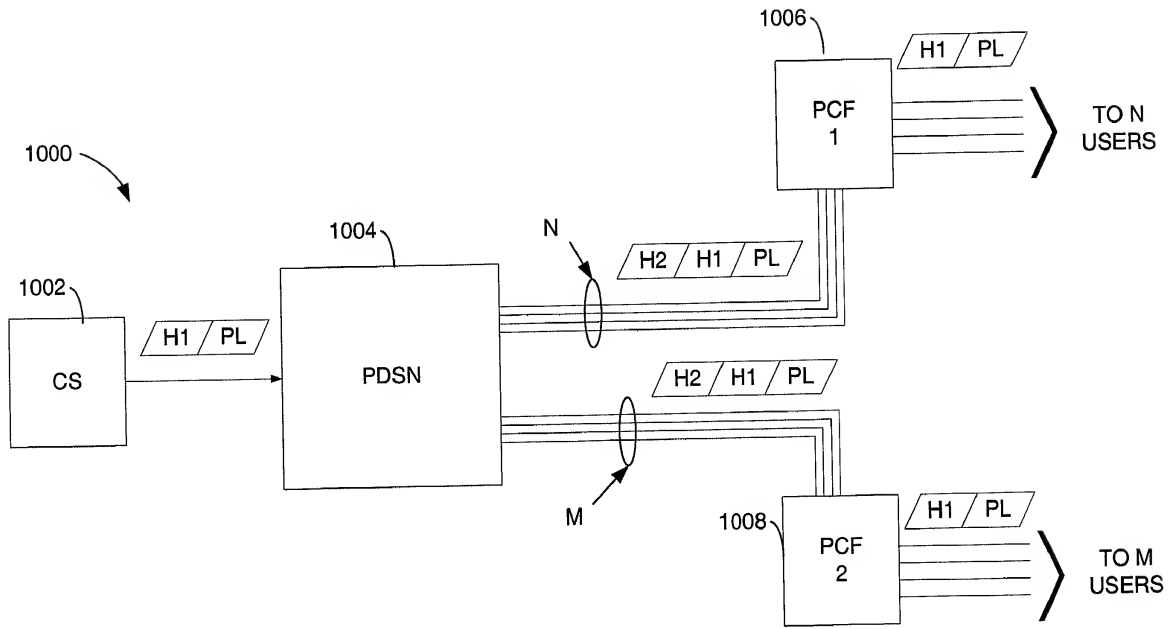

FIG. 13

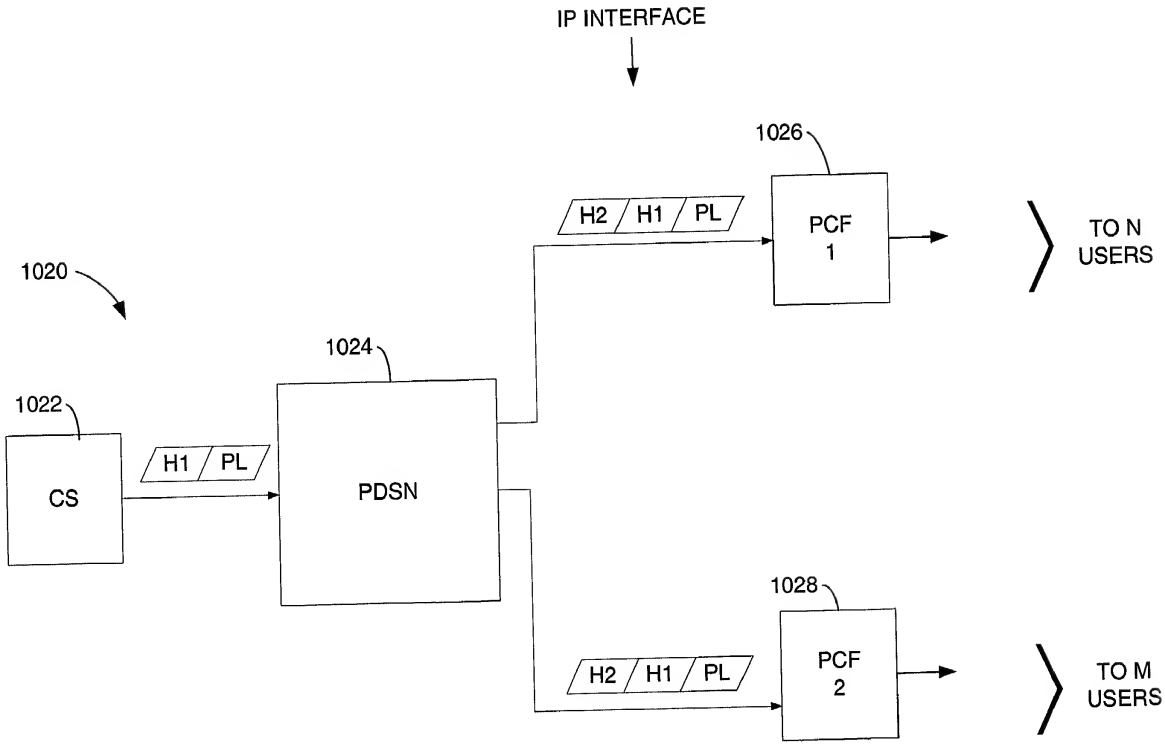
IP INTERFACE
1026
H2
H1
PL
PCF
1
TO N
USERS
1020
1024
1022
H1
PL
CS
PDSN
1028
H2
H1
PL
PCF
2
TO M
USERS

FIG. 14

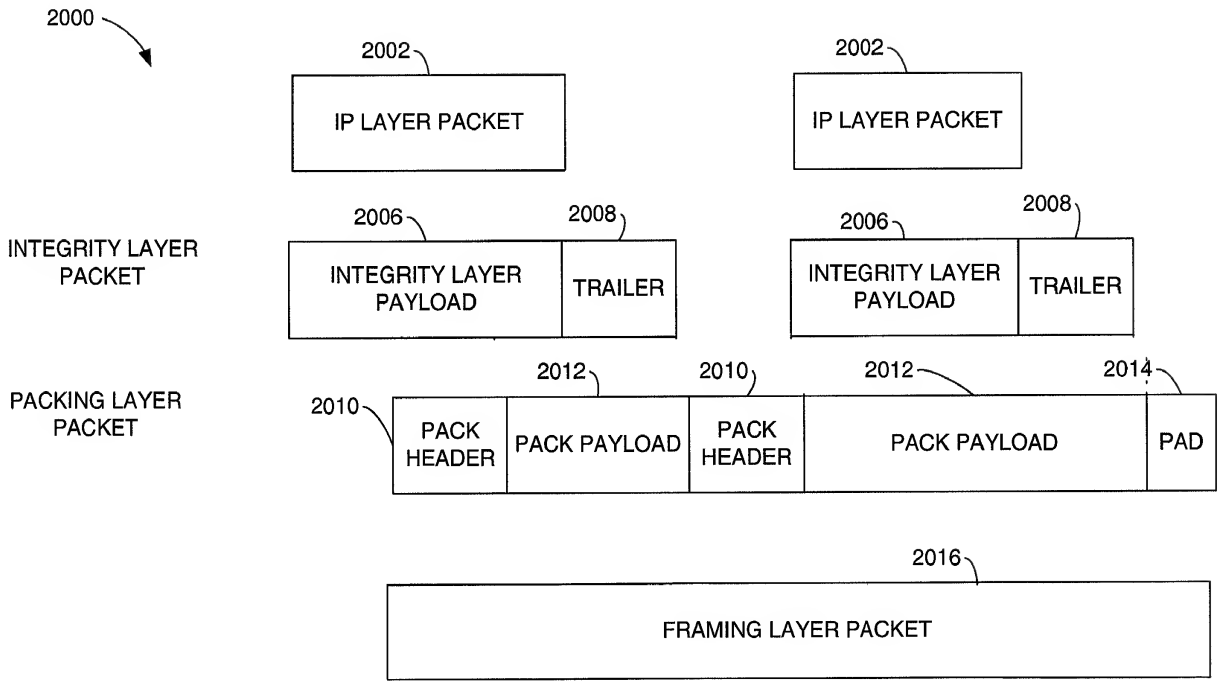
2000
2002
IP LAYER PACKET
2002
IP LAYER PACKET
INTEGRITY LAYER PACKET
2006
2008
INTEGRITY LAYER PAYLOAD
TRAILER
2006
2008
INTEGRITY LAYER PAYLOAD
TRAILER
PACKING LAYER PACKET
2010
2012
2010
2012
2014
PACK HEADER
PACK PAYLOAD
PACK HEADER
PACK PAYLOAD
PAD
2016
FRAMING LAYER PACKET

FIG. 15

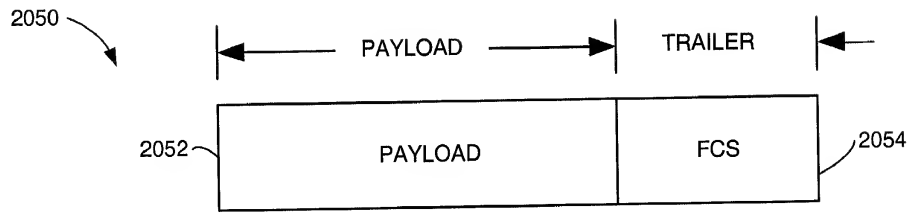
2050
PAYLOAD
TRAILER
2052
PAYLOAD
FCS
2054

FIG. 16

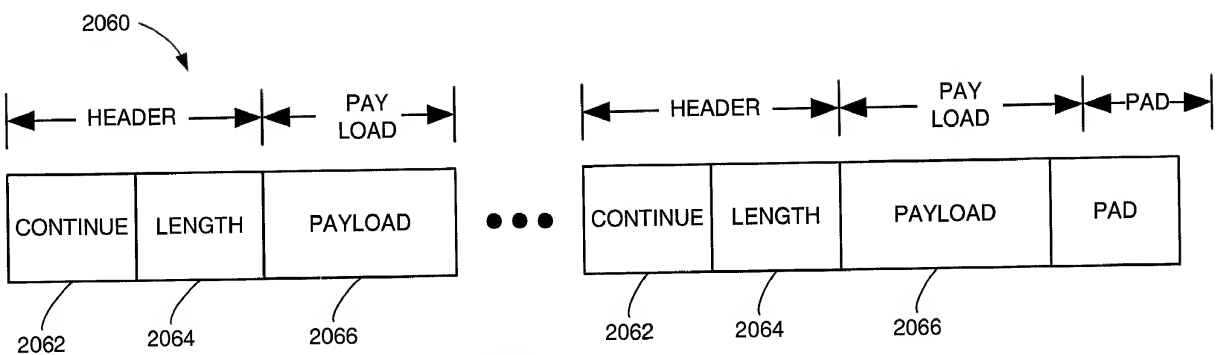
2060
HEADER
PAY LOAD
CONTINUE
LENGTH
PAYLOAD
2062
2064
2066
HEADER
PAY LOAD
PAD
CONTINUE
LENGTH
PAYLOAD
PAD
2062
2064
2066

FIG. 17